

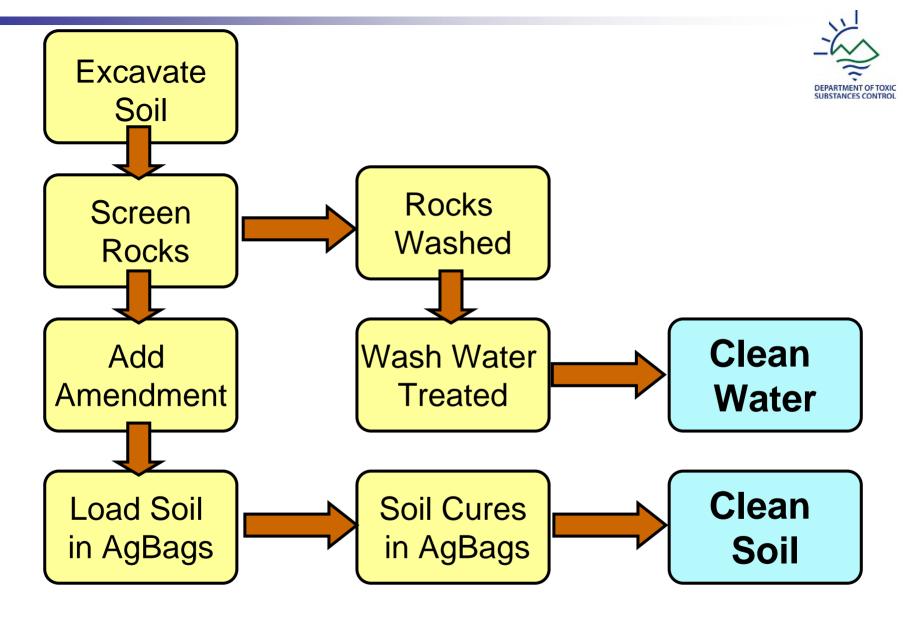
# Implementation of Remedial Action Plan

Operable Unit 1
Former Whittaker Corporation
Bermite Facility
May 2006

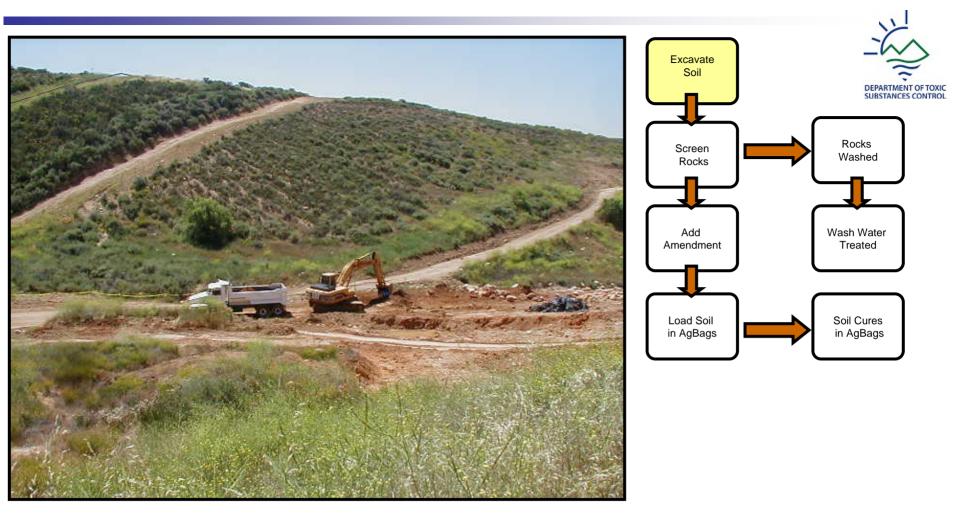
### Implementation of Remedial Action Plan Presentation Outline



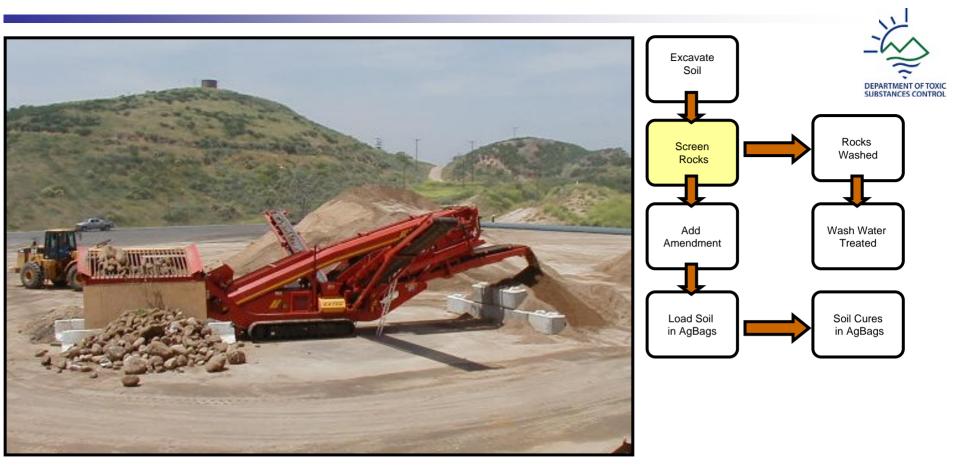
- Treatment Process for Perchlorate Contaminated Soil.
- Excavation Areas;
  - Area 55 Roadway North
  - Area 7 Roadway East
  - Area 7 Roadway North
  - Area 43 Hillside
  - Building 120
  - Area 26
- Area 7 Vapor Extraction System.



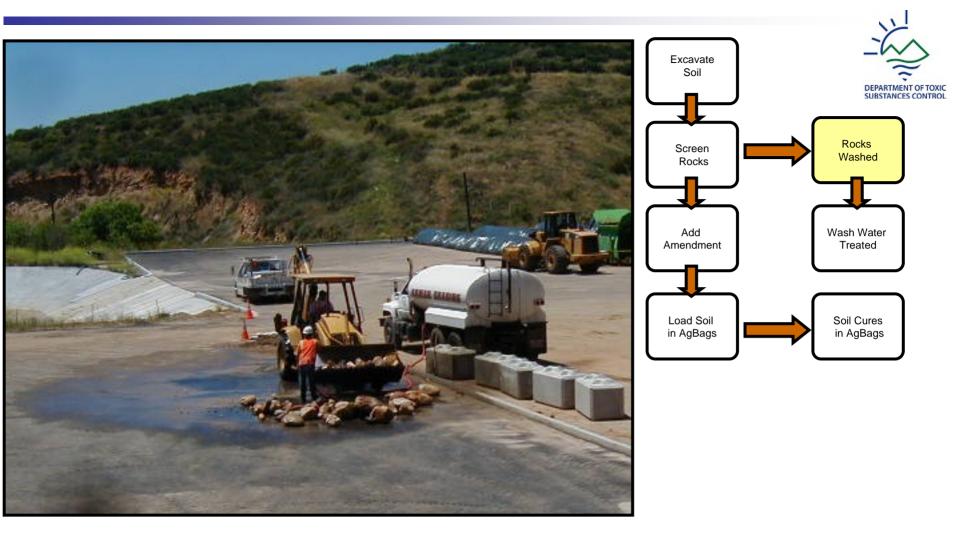
**Summary of Treatment Process** 



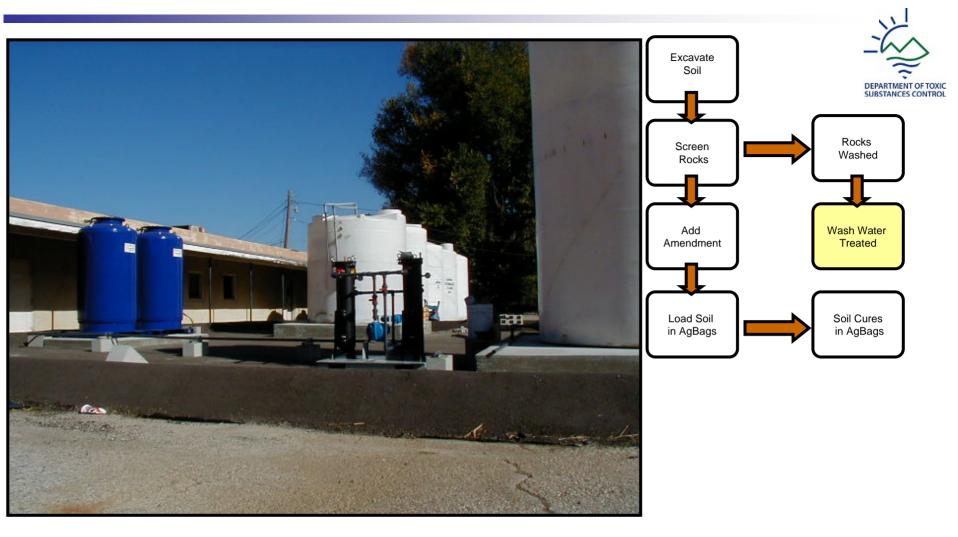
Soil Excavation At Area 26



## Screening Plant for Separating Rocks and Soil



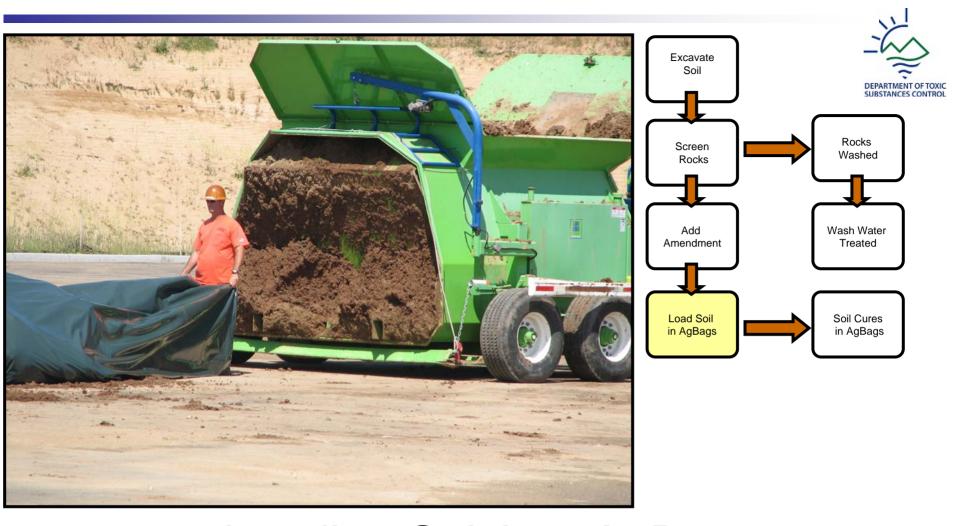
Washing Soil off of Rocks



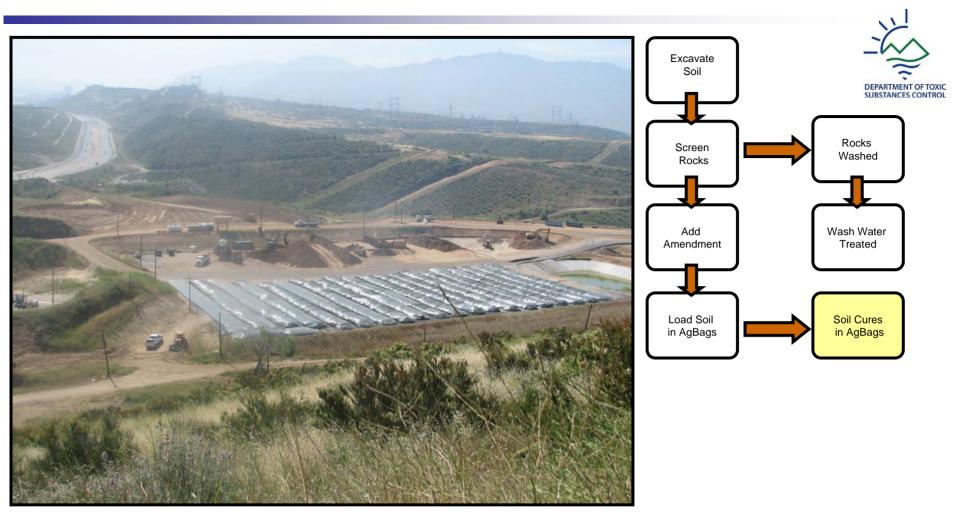
**On-site Water Treatment Plant** 



Pugmill adding Amendment (acetic acid) and water to screened soil.



Loading Soil into AgBag



Loaded AgBags on Treatment Pad

#### Area 55 Roadway North





- Propellant Mixing Facility
- Approximately 480 cy of soil removed.
- All confirmation samples were below action level.
- Excavation to 2 feet.
- Excavation completed on May 3, 2006, area has been backfilled and compacted.

#### Area 7 Roadway East







- Propellant Grinding Facility
- Approximately 1,650 cy of soil removed.
- Elevated perchlorate concentrations ranged from 559 to 8,490 µg/kg.
- Excavation to 14 feet.
- Excavation completed on May 18, 2006.

#### Area 7 Roadway North







- Propellant Grinding Facility
- Approximately 1,710 cy of soil removed.
- Analytical results of confirmation sampling are pending.
- Excavation to 10 feet.

#### Area 43 Hillside







- Propellant Mixing Facility
- Approximately 450 cy of soil removed.
- Elevated perchlorate concentrations ranged from 667 to 1,940 µg/kg.
- Excavation to 14 feet.
- Excavation completed on May 24, 2006.

#### Building 120





- Contained sump that collected waste water.
- Approximately 1,850 cy of soil removed.
- Elevated perchlorate concentrations range from 814 to 8,130 µg/kg.
- Excavation to 13 feet.
- Excavation requires vertical and lateral expansion to remove elevated perchlorate.

#### Area 26







- Former "Hog Out" Area.
- Approximately 3,700 cy of soil removed.
- Elevated perchlorate concentrations range from 687 to 22,800 µg/kg.
- Excavation to 4 feet.

#### Area 7 Vapor Extraction System







- System Summary
  - 20 hp, 500 CFM(max.) Blower
  - 2 Carbon Vessels; 1,000 lb capacity each
  - 8 Vapor Extraction Wells
- Start Date; January 9, 2006
- Removal Rate; 5 to 10 lbs of VOCs per day
- Approximately 580 lbs of VOCs have been removed
- Additional System in Area 55 to start in June, 2006